

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Use as many sheets if necessary)

Page 1 of 2

U.S. Patent Documents

Exam. Init.*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code (if known)			
	A1	US- 2002/0079453 A1	06-27-2002	Tapalian et al	
	A2	US- 2002/0097401 A1	07-25-2002	Maleki et al	
	A3	US- 2002/0172457 A1	11-21-2002	Tapalian et al	
	A4	US- 6,490,039 B2	12-03-2002	Maleki et al	
	A5	US- 2002/0192680 A1	12-19-2002	Chan et al	
	A6	US-			

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Exam. Init.*	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation (Check if yes)
		Ctry. Code	Number-Kind Code (if known)				
	B1	WO	01/40757 A2	06-07-2001			
	B2						

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	C1	JOHNSON, B.R.; "Theory of Morphology-Dependent Resonances: Shape Resonances and Width Formulas", <i>J. Opt. Soc. Am. A</i> (Feb. 1993); Vol. 10, No. 2; pp. 343-352
	C2	LITTLE, B.E., et al; "Pedestal Antiresonant Reflecting Waveguides for Robust Coupling to Microsphere Resonators and for Microphotonic Circuits", <i>Optics Letters</i> (Jan. 1, 2000); Vol. 25, No. 1; pp. 73-75
	C3	LAINE, J.-P., et al; "Microsphere Resonator Mode Characterization by Pedestal Anti-Resonant Reflecting Waveguide Coupler", <i>IEEE Photonics Technology Letters</i> (Aug. 2000); Vol. 12, No. 8; pp. 1004-1006
	C4	BURLAK, G., et al; "Electromagnetic Oscillations in a Multilayer Spherical Stack", <i>Optics Communications</i> , (1 June 2000); Vol. 180; Elsevier Science B.V.; pp. 49-58
	C5	LAINE, J.-P., et al; "Acceleration Sensor Based on High-Q Optical Microsphere Resonator and Pedestal Antiresonant Reflecting Waveguide Coupler", <i>Sensors and Actuators A</i> (2001); Vol. 93; Elsevier Science B.V.; pp. 1-7
	C6	CHAN, S., et al; "Identification of Gram Negative Bacteria Using Nanoscale Silicon Microcavities", <i>Communications to the Editor, Journal of American Chemical Society</i> (Nov. 2001); Vol. 123, pp. 11797-11798
	C7	BURLAK, G., et al; "Electromagnetic Eigenoscillations and Fields in a Dielectric Microsphere with Multilayer Spherical Stack", <i>Optics Communications</i> (1 Jan. 2001); Vol. 187, Elsevier Science B.V.; pp. 91-105

*Examiner:

Date Considered:

2/10/06

EXAMINER: initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Filing Date

October 14, 2003

First Named Inventor

Xudong Fan

Art Unit

2828

Examiner Name

Unknown

Attorney Case Number

58392US002

(Use as many sheets if necessary)

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<i>h</i>	C8	CHAN, S., et al; "Nanoscale Silicon Microcavities for Biosensing", <i>Materials Science and Engineering C</i> (2001); Vol. 15, Elsevier Science B.V.; pp. 277-282
<i>h</i>	C9	SPILLANE, S.M., et al; "Ultralow-Threshold Raman Laser Using a Spherical Dielectric Microcavity", <i>Letters to Nature, Nature</i> (7 Feb. 2002); Vol. 415, Macmillan Magazines Ltd.; pp. 621-623
<i>h</i>	C10	LUGO, J.E., et al; "Porous Silicon Multilayer Structures: A Photonic Band Gap Analysis", <i>Journal of Applied Physics</i> (15 April 2002); Vol. 91, No. 8; pp. 4966-4972
<i>h</i>	C11	BURLAK, G., et al; "Transmittance and Resonance Tunneling of the Optical Fields in the Microspherical Metal-Dielectric Structures", <i>Optics Communications</i> (15 May 2002); Vol. 206, Elsevier Science B.V.; pp. 27-37
<i>h</i>	C12	VOLLMER, F., et al; "Protein Detection by Optical Shift of a Resonant Microcavity", <i>Applied Physics Letters</i> (27 May 2002); Vol. 80, No. 21; pp. 4057-4059
<i>h</i>	C13	KRIOUKOV, E., et al; "Integrated Optical Microcavities for Enhanced Evanescent-Wave Spectroscopy", <i>Optics Letters</i> (Sept. 1, 2002); Vol. 27, No. 17; pp. 1504-1506
<i>h</i>	C14	ARMANI, D.K., et al; "Ultra-High-Q Toroid Microcavity on a Chip", <i>Letters to Nature, Nature</i> (27 Feb. 2003); Vol. 421, Nature Publishing Group; pp. 925-928
<i>h</i>	C15	TAPALIAN, C., et al; "High-Q Silica Microsphere Optical Resonator Sensors Using Stripline-Pedestal Anti-Resonant Reflecting Optical Waveguide Couplers"; <i>Proceedings from SPIE, Photonics West 2003</i> (Jan. 25-31, 2003); Vol. 4969; Laser Resonators and Beam Control VI; Item 4969-30; pp. 11-22

RELATED U.S. APPLICATIONS - DO NOT PRINT

Examiner's Initials	Serial No.	Filing Date	Title
<i>h</i>	10/685,049	10-14-2003	HYBRID SPHERE-WAVEGUIDE RESONATORS

*Examiner:


Date Considered:

2/10/06

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Substitute for form 1449A/PTO (modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) FEB 24 2005 Page 1 of 1	Application Number	10/685208
	Filing Date	October 14, 2003
	First Named Inventor	Fan, Xudong
	Art Unit	2828
	Examiner Name	Unknown
	Attorney Case Number	58392US002

U.S. Patent Documents					
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		Doc. Number-(Kind Code if Known)			
<i>W</i>	A1	US- 6,389,197	05/14/2002	Iltchenko et al.	
<i>W</i>	A2	US- 2002/0041730	04/11/2002	Sercel et al.	
	A3	US-			
	A4	US-			
	A5	US-			
	A6	US-			
	A7	US-			
	A8	US-			
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	A11	US-			










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		Ctry. Code	Number-KindCode (If known)				
	B1	WO	02/16986	02/28/2002			
	B2						
	B3						
	B4						
	B5						
	B6						
	B7						


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	C1		
	C2		
	C3		

*Examiner: <i>RAJ</i>	Date Considered: <i>2/10/2006</i>
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Information Disclosure Statement)

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	C1	Boyd et al., "Sensitive disk resonator photonic biosensor", Applied Optics, Vol. 40, No. 31, November 1, 2001, pp. 5742-5747.	
	C2	Krioukov et al., "Sensor based on an integrated optical microcavity", Optics Letters, Vol. 27, No. 7, April 1, 2002, pp. 512-514	
	C3	Blair et al., "Resonant-enhanced evanescent-wave fluorescence biosensing with cylindrical optical cavities", Applied Optics, Vol. 40, No. 4, February 1, 2001, pp. 570-582.	
	C4	Yunfeng et al., "Chemical sensors based on hydrophobic porous sol-gel films and ATR-FTIR spectroscopy", Sensors and Actuators B, Elsevier Sequoia S.A., Vol. B36, No. 1, 2, and 3, October 1996, pp. 517-521.	
	C5	Crisan et al., "Sol-Gel Preparation of Thin Films for Integrated Optics", 10 th International Symposium on Electron Devices for Microwave and Optoelectronic Applications, 18.-19., November 2002, Manchester, UK., pp. 205-210.	
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	C7	Shibata et al., "Laser Emission from Dye-Doped Organic-Inorganic Particles of Microcavity Structure", Journal of Sol-Gel Science and Technology, Vol. 8, 1997, pp. 959-964.	
	C8	Wark et al., "Incorporation of organic dye molecules in nanoporous crystals for the development of hexagonal solid state microlasers", Proceedings of the SPIE, Vol. 4456, 2001, pp. 57-67.	
	C9	Pipino et al., "Evanescent wave cavity ring-down spectroscopy with a total-internal-reflection microcavity", Review of Scientific Instruments, American Institute of Physics, Vol. 68, No. 8, August 8, 1997, pp. 2978-2989.	

*Examiner: 	Date Considered: 7/10/2006
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